

# TOUCH PANEL WITH MAGNETIC DISPLAY UNIT

## Abstract

A touch panel includes a plurality of display units arrayed in a matrix. Each of the display units includes a container containing magnetic materials, a transparent film installed on the surface of the container, a first isolating component installed on a base and a portion of the sidewalls of the container for isolating neighboring container and carrying the magnetic materials, a second isolating component for separating the container into two chambers and carrying the magnetic materials, wherein there is an opening between the two chambers to make the magnetic materials flow between the two chambers, and at least an electromagnetic apparatus installed under the plurality of display units to act as a base and used for generating a magnetic field to make the magnetic materials separate from the surface of the second isolating component.